

Title (en)
Optical recording medium and manufacturing method therefor

Title (de)
Optisches Aufzeichnungsmedium und Verfahren zu seiner Herstellung

Title (fr)
Milieu d'enregistrement optique et procédé pour sa fabrication

Publication
EP 0962924 A2 19991208 (EN)

Application
EP 99110811 A 19990604

Priority
JP 15795798 A 19980605

Abstract (en)
A recording medium having sufficient characteristics, such as signal characteristics at an elevated density or recording durability, and a method for producing the recording medium. Specifically, there is provided an optical recording medium having a recording layer formed of a phase-change material capable of producing reversible phase changes between the crystal state and the amorphous state, in which the phase changes are induced in the recording layer on illuminating light rays on the recording layer to record and/or erase information signals. The recording layer contains Ag alpha In beta Sb gamma Te delta as the phase-change material, in which the proportions of components alpha , beta , gamma and delta in at% meet the relation of $6 \leq \alpha \leq 16$, $1.1 \leq \delta / \beta \leq 2.2$ and $2 \leq \gamma / \delta \leq 3$. <IMAGE>

IPC 1-7
G11B 7/24

IPC 8 full level
B41M 5/26 (2006.01); **G11B 7/24** (2006.01); **G11B 7/243** (2006.01); **G11B 7/26** (2006.01); **G11B 7/30** (2006.01)

CPC (source: EP KR US)
G11B 7/241 (2013.01 - KR); **G11B 7/243** (2013.01 - EP US); **G11B 7/26** (2013.01 - EP KR US); **G11B 7/266** (2013.01 - EP US); **G11B 2007/24308** (2013.01 - EP US); **G11B 2007/2431** (2013.01 - EP US); **G11B 2007/24314** (2013.01 - EP US); **G11B 2007/24316** (2013.01 - EP US); **G11B 2007/2432** (2013.01 - EP US); **G11B 2007/24322** (2013.01 - EP US)

Cited by
EP1158506A1; US6592958B2; EP1851763B1

Designated contracting state (EPC)
DE FR GB NL

DOCDB simple family (publication)
EP 0962924 A2 19991208; **EP 0962924 A3 19991229**; CN 1239283 A 19991222; JP H11348422 A 19991221; KR 20000005902 A 20000125; SG 98370 A1 20030919; TW 513719 B 20021211; US 2002018961 A1 20020214

DOCDB simple family (application)
EP 99110811 A 19990604; CN 99106992 A 19990604; JP 15795798 A 19980605; KR 19990020577 A 19990604; SG 1999002862 A 19990603; TW 88109058 A 19990601; US 32563799 A 19990604